Application No.: 10/077,565

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Claim Listing:

1. (Currently Amended) A user equipment (UE) including a transmitter

for transmitting a data field of symbols, the transmitter comprising:

a first and second antenna for transmitting said data field of symbols,

wherein said data field includes a first data field;

an encoder for encoding said data field producing a second data field having

complex conjugates of the symbols of said data field; and

a first and second spreading channelization device for receiving the data field

including the first data field and spreading said first and second data fields field,

wherein said first spreading channelization device spreads said first data field

using a first channelization code that is uniquely associated with the first antenna;

and and said second spreading device spreads said second data field using a second

channelization code, each channelization code being uniquely associated with one of

said first and second antennas.

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a second channelization device for receiving the second data field from the

encoder and spreading said second data field using a second channelization code,

the second channelization code being uniquely associated with the second antenna.

2. (Original) The UE of claim 1 wherein said transmitter further

comprises a first and second scrambling device for scrambling said first and second

spread data fields by a single scrambling code associated with said transmitter.

3. (Original) The UE of claim 2 wherein the symbols of said first data

field of symbols are grouped into a first and second sub-data field.

4. (Original) The UE of claim 3, wherein the symbols of said second data

field of symbols are grouped into a third and fourth sub-data field, said third

sub-data field being the negative complex conjugate of said second sub-data field

and said fourth sub-data field being the complex conjugate of said first sub-data

field.

5-8. (Canceled).

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9. (Currently Amended) A user equipment (UE) including a transmitter

for transmitting a data field of symbols, the transmitter comprising:

a first and second antenna for transmitting said data field of symbols; and

a first and second spreading channelization device for spreading said data

field, wherein said first spreading channelization device spreads said data field

using a first channelization code that is uniquely associated with the first antenna,

producing a first spread data field; and, and said-second spreading device-spreads

said data field using a second channelization code, producing a second spread data

field, each channelization code being uniquely associated with one of said first and

second antennas.

a second channelization device for spreading said data field using a second

channelization code that is uniquely associated with the second antenna, producing

a second spread data field.

10. (Original) The UE of claim 9 further comprising a first and second

scrambling device for scrambling said first and second spread data fields by a single

scrambling code associated with said transmitter.

11-12. (Canceled).

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